CLAIMS

What is claimed is:

1.   A mobile communication device having TTY communication capability, said mobile communication device comprising:

        a microprocessor;

        memory associated with said microprocessor;

        mobile user interface in communication with said microprocessor; and

        conversion information stored in said memory for conversion between alphanumeric data and TTY formatted data.

2.   The mobile communication device of claim 1 wherein said user interface comprises:

        a display for the display of alphanumeric data to a user; and

        a user input mechanism.

3.   The mobile communication device of claim 1 further comprising an encoder for encoding TTY packet extension data to a signal for transmission from the mobile communication device, said encoder in communication with said microprocessor.

4.   The mobile communication device of claim 1 further comprising a decoder for decoding TTY formatted data received by the mobile communication device said decoder in communication with said microprocessor.

5.   The mobile communication device of claim 1 further comprising a TTY tone generator for generating TTY tone formatted data for transmission from the mobile communication device, said TTY tone generator in communication with said microprocessor.

6.   The mobile communication device of claim 1 further comprising a TTY tone detector for detecting TTY tone formatted data received by the mobile communication device, said TTY tone detector in communication with said microprocessor.

5   7.   A method of transmitting TTY formatted data from a mobile communication device, the method comprising:

providing a mobile communication device having a microprocessor, memory, mobile user interface, and conversion information for conversion between alphanumeric data and TTY formatted data; and

10   converting between alphanumeric data and TTY formatted data with the microprocessor.

8.   The method of claim 7 further comprising displaying alphanumeric data that is input by the mobile user on a display of the mobile communication device.

15

9.   The method of claim 7 wherein the step of converting between alphanumeric data and TTY formatted data comprises:

converting TTY formatted data received by the mobile into alphanumeric data with the microprocessor; and

20   displaying the alphanumeric data on a display of the mobile communication device.

10.   The method of claim 9 wherein the step of converting TTY formatted data received by the mobile into alphanumeric data further comprises decoding TTY formatted data received by the mobile

25   communication device with a decoder.

11.   The method of claim 9 wherein the step of converting TTY formatted data received by the mobile into alphanumeric data further comprises detecting TTY tone formatted data received by the mobile communication device with a TTY tone detector.

12. The method of claim 7 wherein the step of converting between alphanumeric data and TTY formatted data comprises encoding TTY packet extension data to a signal for transmission from the mobile communication device.

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13. The method of claim 7 wherein the step of converting between alphanumeric data and TTY formatted data comprises generating TTY tone formatted data for transmission from the mobile communication device.

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